DEFENSE ADVANCED RESEARCH PROJECTS AGENCY TACTICAL TECHNOLOGY OFFICE (TTO) PLANNED PROCUREMENTS

January 2000

PROGRAM DESCRIPTION	FUNDING	SCHEDULE	PROGRAM MGR
Applied Micro Adaptive Flow Control (MAFC): The Applied MAFC program seeks	\$20M	BAA 00-13	Dr. Richard Wlezien
to achieve radical aerodynamic and hydrodynamic benefits in military systems by adaptively		Proposals due:	TTO
controlling performance-limiting physical phenomena such as flow separation, vortex		2/9/00	
dynamics, and turbulence. DARPA is interested in the development and demonstration of			
closed-loop feedback control of flow instabilities through localized actuation, sensing, and		Total program:	
control. The intent of this solicitation is to develop and validate enabling MAFC		3 years	
technologies, and to integrate MAFC technologies into full-scale, high pay-off systems-level			
demonstrations.			
Advanced Tactical Technology: The Advanced Tactical Technology program seeks to	TBD	BAA	Dr. Richard Wlezien
research and design system- and sub-system-level technology for integration into the tactical		2QFY00	TTO
environment to supplement, replace, support, or enhance existing systems. DARPA TTO			
has four primary focus areas: aeronautic systems, space systems, land systems and		Total program:	
embedded processors and control systems. The intent of this solicitation is to sponsor the		TBD	
development and/or the demonstration of system or sub-system technologies that provide			
revolutionary improvements to the efficiency and effectiveness of the military relative to			
current modes of operation.			
Advanced Intelligence, Surveillance and Reconnaissance (ISR) Management	\$25M	BAA 97-05-	CDR Carol Thompson
(AIM): The AIM program will develop capabilities that will allow the ISR confederation		PKPX	TTO
to operate in a time compressed and cooperative collection capacity necessary for		Open through	
synergistic collections, time critical targeting, and dynamic battlefield awareness. The		9/30/01	
program is initially focused on supporting the Joint Task Force and its component command			
structure. AIM will concentrate on three major areas to achieve its goal: Information		Total program:	
Needs Development, Strategy Development, and Multi-Asset Synchronization.		4 years	
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\$18M	BAA 99-03-	Dr. David Fields
	IFKPA	TTO
	Open through	
	9/23/00	
	Total program:	
	5 years	
TBD	RFI 00-06	Dr. L. N. Durvasula
	Open through	TTO
	02/10/00	
TBD	BAA 99-22	Dr. David Fields
	Open through	TTO
	5/14/00	
	Total program:	
	4 years	
	TBD	\$18M BAA 99-03- IFKPA Open through 9/23/00 Total program: 5 years TBD RFI 00-06 Open through 02/10/00 TBD BAA 99-22 Open through 5/14/00 Total program:

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ASTRO/Orbital Express (OE): The OE program will demonstrate a class of satellites	\$100M	Program	Mr. Sam B. Wilson
with the ability to transfer fluid (type of fluid that the craft would need to extend the life of a		Announcement	TTO
satellite), accomplish preplanned electronics upgrades, autonomously rendezvous and dock.		2QFY00	
The program's goal is to develop an architecture and/or demonstrate system or subsystem			
technologies that provide revolutionary improvements in efficiency and effectiveness in areas		Total program:	
such as information dissemination, logistics support, extended life, satellite maneuverability,		4 years	
and electronics upgrade on orbit. The solicitation would be under a Section 845 Other			
Transaction for up to five teams with a phased down-select to two teams to each build one			
of the two demonstration satellites.			
Future Combat Systems (FCS): Future Combat Systems is a lightweight, network-	TBD	Research	LTC Marion Van
centric, multi-mission combat system of systems that will achieve overwhelming lethality,		Announcement	Fosson
strategic deployability, self-sustainment, and high survivability by distributing and/or sharing		2QFY00	TTO
functions that normally are combined in heavy, mission-specific combat platforms and by			
maximizing the use of unmanned vehicles. Central to the development of the FCS is the		Total program:	
concept of combat teams comprised of manned and unmanned mobile systems that can		5 years	
effectively operate as small units or in combination across large distances, or in urban areas,			
to locate, identify, engage and destroy targets including those traditionally engaged by heavy			
tanks. FCS will build prototypes after the initial concept design has been chosen. FCS is a			
joint DARPA/Army program with DARPA designated as lead until the program transitions			
to the Army in FY03. The program manager reserves the right to fund focused research to			
explore high-payoff technology areas. Multiple awards up to \$7.55M each are anticipated.			